Scientific program of International Conference «Physical Interpretations of Relativity Theory -2017»

Monday, 3 July, 2017

9.00 Opening the PIRT Conference		
Chair: Blair D. ***(Australian International Gravitational Research Centre, University of Western Australia, Australia)***		
9.30-10.00	*Dadhich N. (IUCAA, PUNE, India)*	Understanding General Relativity after 100 years: a novel perspective
10.00-10.20	*Sakellariadou M. (King's College London, University of London, Great Britain)*	Unweaving the fabric of the Universe
10.20-10.40	*Meierovich B. (P.L. Kapitza Institute for Physical Problems, Russia)*	Motion in a central field with account of dark matter
10.40-11.00	*Burinskii A. (Nuclear Safety Institute of the Russian Academy of Sciences, Russia)*	Weakness of gravity as the illusion hiding a true way to physics of elementary particles
11.00-11.20	*Dokuchaev V., Berezin V.A., Eroshenko Yu.N. (Institute for Nuclear Research, Russian Academy of Sciences, Russia)*	Global geometry of the Vaydya metric
11.20-11.40 Coffee Break		
Chair: Dadhich N. ***(IUCAA, PUNE, India)***		
11.40-12.00	*Domínguez P. (University of Guadalajara, México)*	Super-Poynting vector and comoving observers in the Einstein-Rosen spacetime
12.00-12.20	*Petrova L. (Moscow State University, Russia)*	Connection the functionals of field-theory equations with the state functionals of equations of mathematical physics
12.20-12.40	*Khusnutdinov N., Emelianova N. (University Federal do ABC, Brasil)*	Radiation of particle in wormhole spacetime
12.40-13.00	*Ray P., Mishra B. (Department of Mathematics, BITS-Pilani, Hyderabad Campus, India)*	Anisotropy in viscous fluid Dark Energy cosmological model
13.00-13.40 Lunch		
13.40-14.00 Poster Papers		
Chair: Chervon S. ***(Ulyanovsk State Pedagogical University, Russia)***		
14.00-14.20	*Monakhov V. (Saint Petersburg State University, Russia)*	Superalgebraic structure of Lorentz transformations

14.20-14.40	*Fomin I. (Bauman University, Russia)*	The exact solutions in cosmological models with Gauss-Bonnet scalar
14.40-15.00	*Vargashkin V. (Oryol State University named after I.S. Tourguenev, Russia)*	The analysis of frequency-independent jumps of CMB according to the Planck data
15.00-15.20	*Litvinov D. (Sternberg Astronomical Institute, Moscow State University, Russia)*	RadioAstron gravitational redshift test
15.20-15.40	*Avramenko A. (P.N. Lebedev Physical Institute of RAS, Russia)*	The relativistic inertial coordinate reference frames, synchronized the observed radio emission of pulsar
15.40-16.00 Coffee Break		
Chair: Rowlands P. ***(University of Liverpool, United Kingdom)***		
16.00-16.20	*Darvas G. (Symmetrion, Hungary)*	Hypersymmetry of gravitational and inertial masses in relativistic field theories
16.20-16.40	*Zhotikov V. (Moscow Institute for Physics and Technology, Russia)*	Geometric interpretation of fields and forces of inertia in the nature
16.40-17.00	*Lim S. J. (DXN Institute, Malaysia)*	Metric tensors for electromagnetic fields
17.00-17.20	*Chelnokov M. (Bauman University, Russia)*	Inversion of time and temporal chaos of the Universe
17.20-17.40	*Tarai S., Mishra B. (Birla Institute of Technology and Science, India)*	Viscous fluid cosmological model in f(R, T) gravity
17.40-18.00	*Grushevskaya H., Krylova N. (Belarusian State University, Belarus)*	A geometrothermodynamics of gravitating system with axially symmetric metric

Tuesday, 4 July, 2017

Chair: Gorelik V. ***(Bauman University, Russia)***		
9.00-9.30	*Sazhina O., Sazhin M. (Sternberg Astronomical Institute, Lomonosov Moscow State University, Russia)*	Search for gravitational lenses along the first cosmic string candidate
9.30-10.00	*Levin S.(Moscow Institute for expertise and tests, Russia)*	Anisotropy excess of red shift for supernovae type SN Ia
10.00-10.20	*Korotaev S., Budnev N., Serdyuk V., Kiktenko E., Zurbanov V., Gorohov J., Orekhova D., Tabolenko V. (Bauman University, Russia)*	Macroscopic entanglement and time reversal causality by data of the Baikal experiment

10.20-10.40	*Tskhovrebov A., Zherikhina L., Ryabov V. (Moscow Aviation Institute, Russia)*	Two methods for a search of a magnetic monopole: a dynamic scheme – SQUID-magnetic calorimeter and a static scheme – SQUID-magnetostrictor
10.40-11.00 Coffee Break		
Chair: Sakellariadou M. *(King's College London, University of London, Great Britain)*		
11.00-11.20	*Adhikari M. (University of Calcutta, IMBIC, International Egyptian Engineering Mathematical Society, Institute for Polymath, India)*	Spectral Homology and Cohomology Theories. This study is from the view point of topology
11.20-11.40	*Beesham A. (University of Zululand, South Africa)*	Vaidya Collapse with nonzero radial pressure
11.40-12.00	*Brandyshev P. (Moscow State Pedagogical University, Russia)*	Inflation, superstrings and hidden time-like dimensions
12.00-12.20	*Bogoslovsky G. (Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Russia)*	The rest momentum as an additional property of a massive particle in Finsler space-time
12.20-12.40	*Chervon S. (Ulyanovsk State Pedagogical University, Russia)*	Cosmology from Modified Gravity
12.40-13.00	*Zarikas V., Kofinas G. (School of Engineering Central Greece University of Applied Sciences Lamia GR, AND Nazarbayev University, Astana KZ, Greece)*	Phenomenological Aspects of Asymptotic Safe Gravity
13.00–13.40 Lunch		
13.40-14.00 Poster Papers		
Chair: Gladyshev V.O.(*Bauman University, Russia)*		
14.00-14.20	*Blair D. (Australian International Gravitational Research Centre, University of Western Australia, Australia)*	Creating physical interpretations of Einstein's relativity for universal education in the era of gravitational wave astronomy
14.20-14.40	*Pustovoit V. (Bauman University, Science Technological Center of Unique Instruments of RAS, Russia)*	Laser interferometers to detect gravitational waves, and proposals for improving their accuracy
14.40-15.00	*Rudenko V. (Sternberg State Astronomical Institute, Lomonosov Moscow State University, Russia)*	Relativistic gravitational experiments of the Russian Academy of Sciences and Moscow State University
15.00-15.20	*Gorelik V., Pustovoit V., Gladyshev V., Morozov A., Kauts V., Sharandin E., Fomin I., Portnov D. (Bauman University, Russia)*	Generation and detection of high-frequency gravitational waves at intensive external excitation

15.20-15.40	*Li Ju (The Univeristy of Western Australia, Australia)*	Towards an Asia-Australia gravitational wave detector—the challenges
15.40-16.00 Coffee Break		
Chair: Kauffman L. *(University of Illinois at Chicago, United States)*		
16.00-16.20	*Eroshenko Yu. (Institute for Nuclear Research of the Russian Academy of Sciences, Russia)*	Gravitational waves from primordial black holes collisions in binary systems
16.20-16.40	*Krysanov V. (Institute for Nuclear Research RAS, Russia)*	Non-stationary Noise Sources in an Optoacoustical Gravitational Antenna
16.40-17.00	*Dubrovich V. (SAO RAS, Russia)*	Gravitational-Axion telescope
17.00-17.20	*Hajra S. (Indian Physical Society, India)*	Confirmation of SR, GR and GW by experiments
17.20-17.40	*Izmailov G., Tskhovrebov A., Zherikhina L. (Moscow Aviation Institute, Russia)*	The Compact High Sensitive System SQUID - magnetostrictor: the Possibility of Developing a Phased Array for Gravitational Waves Registration
17.40-18.00	*Kerner R. (University Pierre et Marie Curie, Paris VI, France)*	On the quantum origin of the Lorentz group

Wednesday, 5 July, 2017

Chair: Darvas G. *(Symmetrion, Hungary)*		
9.00-9.30	*Sushkov S. (Kazan Federal University, Russia)*	The screening Horndeski cosmologies
9.30-9.50	*Bronnikov K. (VNIIMS, Russia)*	Wormholes, “trapped ghosts", and the stability problem
9.50-10.10	*Bulyzhenkov I. (Moscow Institute of Physics and Technology, Russia)*	Heat contributes to dynamics of Einstein-Infeld fields
10.10-10.30	*Dainton John (Liverpool University, Great Britain)*	Maxwell’s Second Smoking Gun, Local gauge theory, and its Classical Implementation
10.40-11.00 Coffee Break		
Chair: Sushkov S. *(Kazan Federal University, Russia)*		
11.00-11.20	*Dominis Prester Predrag (University of Rijeka, Croatia)*	Induced actions for higher spin fields
11.20-11.40	*Il'ichov L. (Novosibirsk State University, Russia)*	Probabilities in the topos approach to branching space-time

11.40-12.00	*Antonyuk P. (Bauman University, Russia)*	The electromagnetic wave in Wien's displacement law
12.00-12.20	*Izmailov G., Gorelik V. (Moscow Aviation Institute, Russia)*	Applications of paramagnetics for photon-axion conversion
12.20-12.40	*Galaev S. (Saratov State University, Russia)*	Prolonged almost AP-structures in unified theory of gravitational and electromagnetic interactions
12.40-13.00	*Gasimov N. (Cukurova University, Institute of Natural and Applied Sciences, Turkey, Adana)*	Some aspects of mass-energy equivalence which appears in left handed metamaterials
13.00-13.40 Lunch		
13.40-14.00 Poster Papers		
Chair: Yee Jack Ng *(University of North Carolina, USA)*		
14.00-14.20	*Munera Hector A. (International Centre Physics, Colombia)*	General relativity as a fluid theory
14.20-14.40	*Gorelik V., Filatov V. (Bauman University, Russia)*	The Resonance $\gamma+\gamma\rightarrow p\gamma$ Conversion in the f-block of the Periodic Table
14.40-15.00	*Gladyshev V.O., Strunin A.G., Kautz V.L., Kayutenko A.V. (Bauman University, Russia)*	Effects of moving media optics in GLONASS optical segment of new generation
15.00-15.20	*Masood-ul-Alam A.K.M. (Tsinghua University, China)*	The variable Planck's constant due to imaginary gravitational temperature
15.20-15.40	*Vladimirov Yu. (Moscow State University, Russia)*	Gravitational interaction in geometrical and relational paradigms
15.40-16.00	*Fil'chenkov M., Laptev Yu. (Institute of Gravitation and Cosmology, Peoples' Friendship University of Russia, Russia)*	Field Interpretation of General Relativity

Thursday, 6 July, 2017

Chair: Amoroso R. *(Noetic Advanced Studies Institute, United States)*		
9.00-9.20	*Rowlands P. (University of Liverpool, United Kingdom)*	Fundamental symmetries foundational to physics
9.20-9.40	*Kauffman L. (University of Illinois at Chicago, United States)*	Braiding, Majorana Fermions and the Dirac Equation

9.40-10.00	*Adhikari A. (Calcutta University, India)*	Visual Cryptograpy and DNA Secret Sharing: Two Simple ways to Store Secret Information in a Secure Way
10.00-10.20	*Animalu A.O., Edeagu S., Trell E., Godfrey Ejiroghene Akpojotor (University of Nigeria, Nigeria)*	Semiology of Linguistics and Geometric Lie Algebra Foundation of Atomic Structure and Periodic System
10.20-10.40	*Berezin V., Dokuchaev V.I., Eroshenko Yu.N. (Institute for Nuclear Research, Russian Academy of Sciences, Russia)*	Phenomenoogy of cosmological particle creation, Dirac sea and all that
10.40-11.00 Coffee Break		
Chair: Sazhin M. *(Sternberg Astronomical Institute, Lomonosov Moscow State University, Russia)*		
11.00-11.20	*Amoroso R. (Noetic Advanced Studies Institute, United States)*	Ontological-Phase Topological Field Theory: Context for Einstein/Newton Duality
11.20-11.40	*Sanduk M. (University of Surrey, Great Britain)*	A kinematical model interpretation of special relativity according to Dirac-like equation
11.40-12.00	*Karam S. (Morgan state University, United States)*	Sakharov Curvature in Rowlands Duality-Spacetime
12.00-12.20	*Mayburov S. (P.N. Lebedev Physical Institute of RAS, Russia)*	Commutative Fuzzy Geometry, Quantization and Space-time
12.20-12.40	*Trell E. (Linköping, University, Sweden), Edeagu S., Animalu A.(University of Nigeria, Nigeria)*	Self-organized isotropic vector matrix translation apparatus for realization of the electron, nucleon, and periodic system
12.40-13.00	*Siparov S. (State University of Civil Aviation, Russia)*	Geometrical Aspects of Physical Theory
13.00-13.40 Lunch		
13.40-14.00 Poster Papers		
Chair: Animalu A.O.(University of Nigeria, Nigeria)		
14.00-14.20	*Shishanin A. (Bauman University, Russia)*	Some solutions for scalar models and conformal invariance
14.20-14.40	*Tripathy S. (Indira Gandhi Institute of Technology, Sarang, India)*	Late time cosmic acceleration and anisotropic dark energy
14.40-15.00	*Liu Jian-Liang, Chengjie Y. (Shantou University, China)*	Quasi-local energy and the application on the Kerr spacetime
15.00-15.20	*Samanta Gauranga Charan (Birla Institute of Technology and Science Pilani Goa Campus, India)*	Cosmological model in van der Waals fluid

15.20-15.40	*Mishra B. (Department of Mathematics, BITS-Pilani, Hyderabad Campus, India)*	An Accelerating Dark Energy Model with Hybrid Scale Factor
15.40-16.00 Coffee Break		
Chair: Trell E. ***(Linköping, University, Sweden)***		
16.00-16.20	*Dumin Yu. (Sternberg Astronomical Institute, Lomonosov Moscow State University, Russia)*	Local Hubble Expansion: Current State of the Problem
16.20-16.40	*Savelova E., Kirillov A. (Bauman University, Russia)*	*Variable speed of light in vacuum*
16.40-17.00	*Tomilin K. (S.I. Vavilov Institute for the History of Science and Technology, Russia)*	Yang-Mills equations and gauge coupling constants
17.00-17.20	*Kassandrov V. (Institute of Gravitation and Cosmology, Peoples' Friendship University of Russia, Russia)*	Holographic origin of the space-time geometry
17.20-17.40	*Silagadze Z., Chashchina O., Foot R. (Budker Institute of Nuclear Physics and Novosibirsk State University, Russia)*	Radial acceleration relation and dissipative dark matter
17.40-18.00	*Kirillov A., Savelova E.P. (Bauman University, Russia)*	Stable cosmological wormholes

Posters:

Aliev I., Samedova Z. Optical-mechanical analogy and quantum trajectory *(Bauman University, Russia)*

Antonyuk P. Extreme ball which is limited by extreme sphere *(Bauman University, Russia)*

Rylov Yu. Unification of classical mechanics and quantom mechanics in united conception of particle dynamics *(Institute for Problems in Mechanics Russian Academy of Sciences, Russia)*

Stepanova T., Viahhi E. Properties of the Spatial-Temporary Continuum and Entropy *(Peter the Great St. Petersburg Politechnic University, Russia)*

Konstantinov M. Lorentz Invariance, Causality and Topology of Space-Time: New Questions and Problems *(Bauman University, Russia)*

Kamalov T. Instability states and ostrogradsky formalism *(Moscow Institute of Physics and Technology, Russia)*

Kauts V., Gladyshev V., Bazleva D., Strunyn A. Relativistic test of moving media electrodynamics through the Luneberg lens *(Bauman University, Russia)*

Gorelik V. Laser excitation of bound photonic states in dielectrics *(Bauman University, Russia)*

Pavlov A. Exact solutions of Friedmann equation for supernovae data *(Moscow State Agricultural University, Russia)*

Bukhman N. Principle of Causality, Non-Anthropogenous Forecasting and Superluminal Velocity of Propagation of a Signal *(Samara State Technical University, Russia)*

Lebedev Yu. On the question of everettical mechanism of formation of the Future from the Past *(Bauman University, Russia)*

Fisenko S. To the issue of reconciling quantum mechanics and General relativity *(Moscow state linguistic University, Russia)*

Skripnik F., Zadorozhnyi N., Korogodina E., Timchenko S. Reflection and refraction electromagnetic waves at the dielectric surface: peculiarities interactions *(Bauman University, Russia)*

Lukanenkov A. Gravitational experiments. Interpretation issues *(Russia)*

Nikitin A. GRT experiment: Supernova SN1987A *(Russia)*

Shestakov Yu. Particle in a gravitational field *(The Russian center of science «Kurchatovsky institute», Russia)*

Kudriavtcev Yu. Paradoxes of Quantum Theory from the viewpoint of the Special Relativity *(Russia)*

Lukanenkov A. Experimental confirmation of the doubt about authenticity of the event GW150914 *(Russia)*

Munera Hector A. Absolute velocity of earth from our stationary Michelson-Morley-Miller experiment at CIF, Bogota, Colombia *(International Centre Physics, Colombia)*

Pavlov D. The Basic Properties of the Field of Time *(Moscow State Agricultural University, Russia)*

Gladyshev V.O., Goryushkina D.D., Kayutenko A.V. Accumulation of multiple-beam Fabry-Perot phase response interferometer based on Fizeau effect *(Bauman University, Russia)*

Shestakov Yu. The Independent navigation and system of co-ordinates *(The Russian center of science «Kurchatovsky institute», Russia)*

Koryukin V. “Ghosts” and the Big Bang theory *(Mari State University, Russia)*

Olkhov O. Geometrical interpretation of time *(N.N. Semenov Institute of Chemical Physics, Russia)*

Yurasov N., Yurasov I. Bosons and the black hole *(Bauman University, Russia)*

Gladkov S. To the question on common field theory *(Moscow aviation institute, Russia)*

Gladyshev V.O., Bazlev D.A., Kayutenko A.V. The basic principles of building an analytics platform for the search of new scientific knowledge *(Bauman University, Russia)*

Lipkin A. Space and Time in the Theory of Relativity. The “Object Approach *(Moscow Institute of Physics and Technology, Russia)*

Kudriavtcev Yu. On historical aspect of The Big Bang cosmological model appearance *(Russia)*

Wong C. The Highly Collimated Jet Stream of Quasars *(USA)*

Petrov A. Spherically symmetric collapse to a point-like state *(Sternberg Astronomical Institute, Lomonosov Moscow State University, Russia)*

Unal Nuri Unified spin connection for gravitation and electromagnetism *(Akdeniz University, Turkey)*